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RPython: Need for speed aka C and C# considered harmful

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Restricted Python (RPython) is a subset of a Python language designed to be compiled into lower-level languages, suitable for direct compilation into C, CLI, JVM or others. RPython cuts some of python dynamism (allows for full type inference and creation of flow graphs), but doesn't require explicit type annotations.

Results might be up to 300 times faster than the original python program. Although it was born as an implementation detail of the PyPy interpreter, experience showed that it can be useful by itself. This talk will present some typical RPython's use cases, including:

- * how to write a standalone executable in RPython.
- * how to write an extension module for CPython.
- * how to produce .NET libraries/executables as fast as C#
- * how to write AJAX applications without a single line of Javascript. (and with tests!)
- * how to create bub-n-bros client in just few lines of code running on a browser :-)

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